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FEBRUARY 15TH 1889

H. W. JOHNS'

ASBESTOS

MATERIALS

AND MANUFACTURES FOR
MECHANICAL, STRUCTURAL & HOUSEHOLD PURPOSES.

H. W. JOHNS MANUFACTURING CO.

SOLE MANUFACTURERS.

87 MAIDEN LANE, NEW YORK
CHICAGO. PHILADELPHIA. LONDON.



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INDEX.

PAINTS, COLORS, ETC.

	PAGE
H. W. Johns' Liquid Paints	2
Roof and Railway Paints	3
Liquid Priming	3
Shingle Stains	3
Iron-Oxide	3
Liquid Coach Colors.	4
Wood Stains	4
Liquid Dryer ...	4
Strictly Pure Raw Linseed Oil	4
Fire-proof Paints	5
Colors in Oil	6
Coach Colors, in Japan	7
Varnishes and Wood-Filler	8 & 9

ROOFING AND BUILDING MATERIALS.

Asbestos Roofing	10
“ Roof Coating. Cement, etc.	11
“ Building Felts and Sheathings	12

STEAM-PIPE AND BOILER COVERINGS.

Asbesto-Sponge	13
“ “ Cement Felting	14
Asbestos Air-Chamber Covering	15
Asbesto-Sponge Sectional Covering	16
Asbestos Sectional Pipe Covering	17
Asbestos Felt, Wire Cloth, etc.	18
Asbestos Lining Felt, Corded Sheathing, etc	19

STEAM PACKINGS, ETC.

Asbestos Piston-Rod Packing, Wick Packing, Sheet Packing, Gaskets, etc.	20 & 21
---	---------

FIRE-PROOF CEMENTS, CLOTHS, ETC.

Asbestos Plastic Stove-Lining	22
“ Furnace Cement.	22
“ Retort Cement	23
“ Cloth, Rugs, etc.	23
“ Rope, Cord, Twine, Yarn, etc	24

VULCABESTON.

Electric Insulating Sheets, Rings, Washers, etc., Moulded Gaskets, Steam Packings, etc., etc	25, 26 & 27
Indurated Fibre Conduits	28 & 29
“ “ Pails	29

H. W. JOHNS' LIQUID PAINTS.

ASBESTOS




These are in every respect **strictly first-class** Paints, composed of pure linseed oil and the highest grade of pigments. They are combined by processes exclusively our own, and are unequaled by any in richness and permanency of color. As these Paints contain no deleterious or useless adulterations, the great difference in their **covering properties** in comparison with

ordinary paint is at once recognized, and the universal testimony is that from fifteen to twenty-five per cent. of the usual cost of painting can be saved by their use.


They are prepared ready for the brush, in fifty-four newest shades and standard colors, and we offer them as **the most durable and economical paints ever produced for general structural purposes.**

One gallon will cover from 250 to 275 square feet, two coats without thinning.

 Send for Circulars containing samples, testimonials, suggestions for painting, &c., free by mail.

Price, per U. S. Standard Gallon Measure, for all Shades on Sample Sheets, except those Specially Quoted.

BBLs., per gal. 45 to 30 gals.	KEGS, per gal., 20, 15, 10 & 5 gals.	PAILS & Cans, per gallon, 3, 2 & 1 gal.	½ gal. Cans, each.	Quarts, each.	Pints, each.
\$1.90	1.95	2.00	1.05	.60	.35
<hr/>					
Inside and Outside White, }	\$2.10	2.15	1.15	.65	.40
No. 11, Indian Red,	2.80	2.85	1.50	.80	.45
No. 62, Dark Green,	3.25	3.30	1.70	.90	.50
No. 12, Vermilion,	3.80	3.85	2.00	1.05	.55
No. 10, Standard Green, }					
Floor Paint { Yellow,	1.55	1.60	.85	.50	.30
{ Lead,	1.40	1.45	.80	.45	.25

 Paints for special purposes made to order.

ROOF & RAILWAY PAINTS.

ASBESTOS



These Paints are prepared ready for use and possess a more elastic body than any other; they are therefore less liable to injury, and have proven to be the best and most economical paints ever produced for similar purposes. They are especially adapted for painting **Tin and other Roofs**, Railroad Buildings, Bridges, Freight Cars, Steamboat Decks, Boats, Outbuildings, Fences, Gas Holders and other iron and

rough woodwork. One gallon will cover from 350 to 400 square feet, one coat. Sample Cards furnished on application.

Per Gal. U. S. Standard Measure.	BBLs., 45 to 30 gals.	KEGS, 20, 15, 10 & 5 gals.	PAILS, 3, 2 & 1 gal.
Red, Gray, Buff, Slate.... }	\$1.40	1.45	1.50
Yellow and Cream-White.. }			
Dark Red.....	1.10	1.15	1.20
Brown	1.00	1.05	1.10
Gas-Holder Paint.....	1.25	1.30	1.35

H. W. JOHNS' LIQUID PRIMING.

Prepared ready for use for first coating on all wood or brick work. Suitable for use with any shade of our Liquid Paint.

Per Gal. U. S. Standard Measure.	BBLs., 45 to 30 gals.	KEGS, 20, 15, 10 & 5 gals.	PAILS, 3, 2 & 1 gal.
White or Yellow..... }	\$1.25	1.30	1.35

H. W. JOHNS' SHINGLE STAINS.

Composed of pure colors and the best preservative materials known. Prepared, ready for use, in eight colors. One gallon will "dip" about 50 shingles or cover 200 square feet of surface.

Samples on wood sent free on application.

In bbls. and half bbls., 60 cts.; in kegs, 65 cts.; and in pails, 70 cts. per gallon.

Special shades made to order.

H. W. JOHNS' IRON-OXIDE PAINT.

This Paint is ground very fine, mixes readily with Raw or Boiled Oil, and is superior in color to any Metallic Paint in the market. In two colors, Dark Red and Purple.

DRY, in kegs, half-bbls. and bbls., from 100 to 300 lbs. ea.; per lb., 2½ cts.

IN OIL, in 25, 50 and 100-lb. pails and kegs; per lb. 7 "

H. W. JOHNS' LIQUID COACH COLORS.

These are prepared ready for use, of the best and most durable materials, especially for repainting old Carriages, Wagons, Carts, Sleighs, Buggies, etc. They can be easily applied, dry rapidly with a firm, hard gloss, and do not require to be either rubbed or varnished. One quart is sufficient for an ordinary sized wagon.

Black, quart cans.....\$1.00; pints, 60 cts. each.

Yellow,

Blue,

Vermilion,

} quart cans\$1.25; " 75 " "

Liquid Top Dressing, per quart.....\$1.25

H. W. JOHNS' WOOD STAINS.

Prepared in pure Gold-Size from the best pigments only. They are put up in form of a stiff paste, to be thinned as desired with turpentine only, and taking into consideration their covering capacity, are the most economical Stains in the market. One pound will produce over one quart of strong Stain, which will cover about 800 square feet. Full directions for using on every package. In 1, 5 and 25-lb. cans.

Antique Oak, Walnut, Mahogany and Cherry, per lb.25 cts.

Ebony..... "45 "

In ½-lb. cans, 5 cts. per lb. advance.

Sample sheets furnished on application.

H. W. JOHNS' LIQUID DRYER.


Our Liquid Dryer is warranted superior to any in the market in siccative qualities, lightness of color and uniformity. It possesses double the strength of any other Liquid Dryer, is suitable for all linseed oil Paints, and will not discolor the most delicate tints. No other Dryer should be used in our Paints.

In Nozzle Cans, boxed for shipment.	10 & 5 gals., per gal.	1 gal., per gal.	½ gal., each.	Quarts, each.	Pints, each.	½ Pts, each.
U. S. Stand. Measure.	\$1.65	1.85	1.00	55c.	30c.	20c.

STRICTLY PURE RAW LINSEED OIL.

Adulterated and inferior grades of Oil are now sold to such an extent that, to insure the use of good oil in thinning our Paints and Colors, we will supply our customers only with strictly pure raw Linseed Oil as used in our Paints, in Barrels, at New York Market prices. The following additional charges will be made for packages for smaller lots.

15 to 10-gallon Package.	5-gallon Package.	3-gallon Package.	2-gallon Package.	1-gallon Package.
\$1.00	60c.	50c.	35c.	25c.

 Empty packages are not returnable.

ASBESTOS FIRE-PROOF PAINTS.

For Inside Work. These Paints are composed of strictly fire-proof ingredients, prepared ready for use in white and light tints, exclusively for Inside rough woodwork of Factories, Warehouses, Railroad Bridges, Boiler-Rooms, Cotton-Gin Houses, Theatres, Cellars, Attics, Stables, etc., for which purposes they are as durable as the ordinary oil paints, and afford a valuable protection against sparks, cinders or light flames. One gallon will cover about 150 square feet, two heavy coats. Can be easily applied by any one.

	BBLS., 50 to 30 gals.	KEGS, 20, 15, 10 & 5 gals.	PAILS, 3, 2 & 1 gal.
Per Gal. U. S. Standard Measure.	75 cts.	80 cts.	85 cts.

ASBESTOS FIRE & WATER-PROOF PAINTS.

For Outside Work. These are the result of more than twenty years' exhaustive experiments, and are the only Paints ever produced which form a reliable protection against burning sparks and cinders and will also withstand the action of the weather. They are especially valuable for Wooden Factories, Warehouses, R. R. Fences, Station and Freight Houses, Bridges, Roofs, etc.

They are supplied in all the shades of our Roof and Railway Paints (see page 3). One gallon will cover from 350 to 400 square feet, one coat.

	BBLS., 45 to 30 gals.	KEGS, 20, 15, 10 & 5 gals.	PAILS, 3, 2 & 1 gal.
Per Gal. U. S. Standard Measure.	\$1.85	\$1.90	\$1.95
Railroad-Fence Paint, Red and Brown.	1.10	1.15	1.20

ASBESTOS CONCRETE COATING.

Is strictly fire-proof, and made of proper consistency to be applied with a trowel. This Coating has proven an effective protection for beams, posts, partitions, roof boards, and other inside rough woodwork exposed to flames or intense heat. 100 lbs. will cover about 200 sq. ft. 1-16th of an inch thick.

Casks of from 600 to 400 lbs., per lb. $6\frac{1}{2}$ cts. Kegs of from 300 to 100 lbs., per lb. 7 cts.

H. W. JOHNS'

FINE COLORS, IN OIL.



These Colors are prepared from carefully selected pigments ground in pure linseed oil, for the use of Painters and Decorators, and are unequaled in strength and fineness.

		Per lb., in 1 and 5-lb. cans.
UMBER, Best Turkey, Raw and Burnt.....		\$.17
SIENNA, Best Italian, Raw and Burnt.....		.18
BROWN, Vandyke.....		.18
YELLOWS,	Chrome, L., M., O. & D. O.....	.20
	Roman Ochre.....	.26
	Golden Ochre.....	.20
	Yellow Ochre.....	.14
	Stone Ochre.....	.14
	French Ochre.....	.12
BLACKS,	Sign Writers'.....	.25
	Drop.....	.20
	Ivory.....	.20
	Coach.....	.22
	Lettering.....	.20
	Refined Lamp-Black.....	.20
BLUES,	Chinese (½ lb. cans 25c. ea., ¼ lb. cans 15c. ea.)	.45
	Azure.....	.30
	Prussian (½ lb. cans 25c. ea., ¼ lb. cans 15c. ea.)	.40
	Ultramarine (½ " 18c. " ¼ " 12c. ")	.28
	French Verdigris.....	.40
GREENS,	Permanent.....	.36
	Paris.....	.28
	Chrome, L., M. & D.....	.18
	Window Blind, L., M. & D.....	.18
VERMILIONS,	English, L. & D. (Subject to change.)	1.50
	American, L. & D.....	.25
	Rose Pink.....	.27
REDS,	Tuscan Red.....	.25
	Indian.....	.20
	Venetian.....	.12
WHITE,	Flake.....	.26
GRAINING COLORS, { Black Walnut, L. & D. Oak, }		.16
{ Chestnut, and Ash, }		
DISTEMPER COLORS,	{ Black, Vandyke Brown, Umbers and }	.18
	{ Siennas..... in 1 lb. bottles, each }	
	{ Chrome Yellow, L., M. & O. " " }	.30



H. W. JOHNS'

FINE COACH COLORS.

IN JAPAN.

These colors are Ground in best Coach Japan, are warranted uniform in quality and color, and will dry flat and evenly at once.

		Price per lb.
		In 1-lb. PATENT Cans,
		& in 5-lb. Press Cans.
Blacks.	Best Ivory Black	\$.45
	Drop Black .....	.35
	Coach Black .....	.32
	Carriage Black .....	.25
	Coach Painters' Lamp Black .....	.30
Blues.	Prussian Blue .....	.75
	Ultramarine Blue .....	.80
Green.	Coach Painters' Green (L., M. & D.) .....	.45
Reds.	English Vermilion (L. & D.) Subject to change	1.50
	American Vermilion (L. & D.) .....	.40
	Rose Pink .....	.40
	Tuscan Red .....	.35
	Indian Red .....	.30
Browns.	Amber Brown (L. & D.) .....	.42
	Vandyke Brown .....	.42
	Raw and Burnt Italian Sienna .....	.35
	Raw and Burnt Turkey Umber .....	.30
Yellows.	Perfect Yellow	2.50
	Chrome Yellow (L., M., O. & D. O.) .....	.40
	Yellow Ochre .....	.35
	Golden Ochre .....	.35
Whites.	Flake White .....	.45
	Silver White .....	.40
Lakes.	No. 40 Carmine (L. & D.)	7.00
	Chatemuc Lake .....	.75
	Carriage Part Lake (L. & D.) .....	.50
	Wine Color, Best (L., L. L. & D.) .....	.70
	“ “ Ordinary (L. & D.) .....	.40
Coach Priming, for new work, per gallon		\$1.75
“ Filling, for bodies and running parts, per gallon		2.50
Ground Rough Stuff, per gallon		2.50

H. W. JOHNS' VARNISHES.

Outside Finishing Varnish.—This is made of the best materials, and is intended for the best outside work where a good surface has been prepared for it, and where the most durable finish is desired; such as outside doors, window-frames, signs, etc. It is also a superior Finishing Varnish for coach bodies.

Inside Finishing Varnish.—Prepared expressly for inside work of houses finished in hard woods, and the best cabinet work. The wood should be first filled with our Wood-filler. The first and second coats of varnish should be rubbed down with hair, or, on fine work, with pumice stone; the last coat may be left bright or rubbed down to a dead finish, as desired.

Extra Coach Varnish.—Is used for the same purposes as our Outside Finishing Varnish, but dries harder. It is adapted for all ordinary outside work, and will be found unsurpassed for Wagons and Gears. It is also used for inside work, over grained woods, etc., with the best results when two or three days can be given it to harden.

No. 1 Coach Varnish.—Is in every respect equal to our Extra Coach Varnish, except that it is not so pale in color.

Wagon Varnish.—For ordinary wagon and agricultural implement work.

Extra Furniture Varnish.—This is a superior light-colored varnish suitable for ordinary cabinet work, and is especially adapted for painted furniture, light woods, etc.

No. 1 Furniture Varnish.—This Varnish is offered at the lowest price at which a really serviceable varnish can be produced, and is suitable for ordinary furniture.

Hard Oil Finish.—A superior article for interior hard wood-work, developing the natural beauty of the grain, without discoloration. Can be finished either "gloss" or "polished," as desired, and is not affected by moisture. In ordering, mention whether required for light or dark woods.

Floor Varnish.—For varnishing either painted or hard-wood floors, etc. The wood should be first "filled" with our **Asbestos Wood-Filler** brushed on freely and wiped carefully.

Coach Japan.—Is a very strong dryer, and will not curdle when mixed with oil.



Asphalt Varnish.

—This is a quick-drying jet-black Varnish in pure Spirits Turpentine, especially adapted for coating new and old iron, such as Fences, Railings, large and small Castings, Tin, Zinc, etc.

In Bbls. and Nozzle Cans, boxed for shipment.—U. S. Standard Measure.

	Bbls. per gal.	10 & 5 Gal per gal.	1 Gal. per gal.	H'l f Gal. each.	Quarts, each.	Pints, each.	H'l Pts each.
Outside Finishing.....	\$3.75	\$3.95	\$4.15	\$2.20	\$1.15	.65	....
Inside ".....	3.00	3.20	3.40	1.80	.95	.55	.30
Spar Varnish.....	4.00	4.20	4.40	2.30	1.25	.75	....
No. 1 Preservative.....	2.20	2.40	2.60	1.40	.75	.45	....
No. 2 ".....	3.10	3.30	3.50	1.85	1.00	.60	....
Extra Coach.....	2.25	2.45	2.65	1.45	.80	.45	....
No. 1 ".....	2.00	2.20	2.40	1.30	.70	.40	....
Wagon Varnish.....	1.50	1.70	1.90	1.00	.55	.35	....
Extra Furniture.....	1.75	1.95	2.15	1.20	.65	.40	.25
No. 1 ".....	1.40	1.60	1.80	1.00	.55	.35	....
Hard Oil Finish, Lt. & Dk.	2.10	2.30	2.50	1.35	.75	.45	....
Floor Varnish.....	2.00	2.20	2.40	1.30	.70	.40	....
Black Rubbing Varnish.	4.00	4.20	4.40	2.30	1.20	.65	....
Asphalt Varnish (Turps.)	1.20	1.40	1.60	.90	.50	.30	....
Orange Shellac (in grain alcohol).....	4.50	4.70	4.90	2.55	1.35	.75	....
Coach Japan.....	1.50	1.70	1.90	1.05	.60	.35	....
Brown Japan.....	1.30	1.50	1.70	.95	.55	.35	....
Turpentine Japan.....	1.00	1.20	1.40	.80	.45	.25	....

Black Lustre Varnish.—This is a quick-drying Varnish made from extra-distilled Coal Tar. It is adapted for coating heated iron-work, such as Smoke Stacks, Steam Pipes, etc., and for the use of manufacturers of Steam Boilers, Iron Castings, etc.

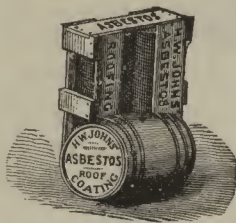
In bbls. and half bbls., 40 cts.; in kegs, 55 cts.; in pails and cans, 70 cts. per gallon.

ASBESTOS WOOD-FILLER.

Is ground in best Gold-Size, and is offered as the best Wood-Filler in the market.

Dark, Light and Mahogany, in 1, 5 and 25-lb. cans; per lb. . . . 20 cts.

H.W. JOHNS' PATENT ASBESTOS ROOFING



This is the perfected form of the portable Roofing manufactured by us for the past thirty years. It is suitable for Factories, Foundries, Warehouses, Railroad Buildings, Bridges, Car and Steamboat Decks, etc.; also for lining Gutters, etc.; and consists of strong canvas, combined with an Asbestos-coated felt and a manila lining or "backing," water-proofed and compressed into a compact, flexible sheet resembling leather. It is supplied ready for use, in rolls 38½ inches wide, containing 200 sq. ft., with

allowance for 2-inch laps, and is packed in cases suitable for shipment to all parts of the world. It weighs, with Coatings complete, including packages, only about 85 lbs. to 100 sq. ft., and, when protected with our **Asbestos Roof Coating** and the white **Fire-Proof Coating** made exclusively for, and supplied with, this Roofing, forms a light, cool and durable roof, which is proof against burning sparks and cinders.

It is adapted for steep and flat roofs in all climates, costs only about half as much as tin and can be readily applied by any one. It requires occasional re-coating.

When ordering, make allowance for extra joints, gutters, etc.

This Roofing is also largely used for floor covering in Jewelers' and similar work-shops, and for this purpose is superior to oilcloth.

Send for special pamphlet containing full description, instructions for applying, testimonials, etc.

Per "Square" (100 sq. ft.), with Roof Coating, Fire-Proof Coating and Nails complete.....\$4.50

DOUBLE-THICK ROOFING FELT.

In rolls 32 inches wide, containing 200 square feet each. It is easily applied by nailing at edges with our Roofing Nails and Tin Caps, and, when coated with our **Asbestos Roof Coating** and sanded, forms an economical roof for temporary structures.

Per Square (100 square feet), with **Asbestos Roof Coating** for two Coats, Nails and Caps complete.....\$2.50

Best Quality Tarred Felt, in rolls 32 in. wide, of about 45 lbs. each; about 15 lbs. to 100 sq. ft.; per lb.....2½ cts.

ASBESTOS ROOF COATING.

This is a Fibrous Coating, composed of ground Asbestos and Silica, combined with partially distilled coal tar and an acid and water-proof composition, and is prepared ready for use, to be applied with a brush. It is used for coating the Asbestos Roofing, and forms the most durable and economical Coating ever produced for Felt and Canvas Roofs. It is also largely used for dipping or coating fence and telegraph posts, spiles, dock-timbers, etc., being proof against worms and a durable preservative. One gallon will cover 100 sq. ft., one heavy coat.

Extra Heavy Coating, for repairing old roofs, will be made to order.

	BBLs.,	KEGS,	PAILS,
Per Gal. U. S.	50 to 30 gals.	20, 15, 10 & 5 gals.	3, 2 & 1 gal.
Standard Measure.	40 cts.	45 cts.	50 cts.

ASBESTOS ROOF CEMENT.

This Cement is prepared ready for use, and forms an elastic, adhesive compound, of a consistency to be easily applied with a trowel. It is used for repairing leaks around chimneys, dormer-windows, sky-lights, scuttles, etc., on all kinds of Roofs, and for broken joints, nail and rust holes in Tin Roofs, etc.

Old leaky **Tin** and **Iron** roofs can be restored and rendered serviceable for many years with the **Brown Cement** and our Asbestos Roof Paints.

The **Black Cement** is used with our Asbestos Roof Coating, for repairing old **Canvas**, **Felt** and other Roofs.

Full instructions on every package.

	50 & 25-lb. Pails.	10-lb. Cans.	5-lb. Cans.
Black.....	6 cts. per lb.	75 cts. each.	50 cts. each.
Brown.....	9 " "	\$1.00 " "	75 " "

ROOFING BRUSHES.

Our Roofing Brushes are manufactured expressly for applying our Asbestos Roof Paints and Roof Coating, and are the best brushes made for the purpose.

2-Knot, each..\$1.00 3-Knot, each..\$1.25 4-Knot, each..\$1.50

ROOFING NAILS.

Our Barbed Roofing Nails are made with extra-large heads, and are superior to any others for the purpose. About 1½ lbs. are required for one square (100 square feet) of Asbestos Roofing. Per lb...8 cts.

ASBESTOS BUILDING FELT.

Our Building Felt is composed entirely of Asbestos, and, on account of its non-conducting and fire-proof qualities, is largely used for lining weather-boards, shingle roofs, floors, wood partitions, etc. It will not disintegrate by age, is odorless and vermin-proof.

In rolls of about 70 lbs., 36 in. wide, weighing about	} per lb. . . 14 cts.
10 lbs. to 100 sq. ft.	
Extra Heavy Building Felt , about 14 lbs. to 100 sq. ft.	

ASBESTOS SHEATHING.

This is composed of pure white, long fibred Asbestos, and is strictly fire-proof. It is used for lining wood partitions and ceilings, fire screens, and other surfaces in danger of ignition by fire.

In rolls of from 60 to 100 lbs., 42 in. wide, weighing	} per lb. . . 18 cts.
about 6 lbs. to 100 sq. ft.	
Double-thick Asbestos Sheathing , about 10 lbs. to 100 sq. ft.	

ASBESTOS

FIRE & WATER-PROOF SHEATHING.

(PATENTED.)

This is one of our recent inventions, and is the only strictly **Fire and Water-Proof** Sheathing made from Asbestos. It is composed exclusively of Asbestos, rendered permanently water-proof by a recently discovered chemical process, which gives it greater strength than any other Asbestos Sheathing or Felt of twice its weight and thickness.

Its value as a protection against fire and water, for sheathing or lining weather-boards of wooden structures, shingle and slate roofs, floors, walls, partitions, ceilings, etc., will be readily appreciated. It is also acid-proof.

In rolls 36 in. wide, weighing about 7 lbs. to 100 sq. ft.;	
per lb.	20 cts

Rosin-Sized Sheathing , in rolls 36 in. wide, about 8 lbs. to 100 sq. ft.;	per lb.	4 cts.
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ASBESTO-SPONGE.

This newly invented material has been patented in this country and Europe, and is the result of a discovery of the adhesive attraction existing between the tentacle-like barbs of common sponge and the fine silky fibres of Asbestos, which is so great that a natural "felting" process takes place between these two materials by mere contact.

We have taken advantage of this fact to utilize their combined fire-proof and non-conducting qualities in our **Steam Pipe and Boiler Coverings**, and in adding to the well-known properties of Asbestos the lightness and porosity due to the cellular formation of the sponge (which is rendered practically fire-proof), we have attained results never before accomplished, and offer our **Asbesto-Sponge** products as superior to those of any other material known, in effectiveness as non-conductors and for general insulation.

No other known substance possesses the fibrous-cellular formation of ASBESTO-SPONGE, and we challenge the world to produce a practicable non-conducting covering, lining or filling of equal lightness, elasticity and effectiveness.

This new Non-Conducting and insulating material is practically fire-proof and possesses the advantage of double the bulk (covering capacity) of Hair Felt, and more than three times that of pure Asbestos.

It is especially valuable for filling, lining and deadening Refrigerator Cars, Ice Chests, Floors, Walls, etc.

Covering capacity considered, it costs less than any other material for similar purposes. It is at present supplied in the following forms :

ASBESTO-SPONGE CEMENT FELTING (see next page).

ASBESTO-SPONGE FILLING.

In bbls. containing about 50 lbs., per lb.....20 cts.

ASBESTO-SPONGE LINED FELT.

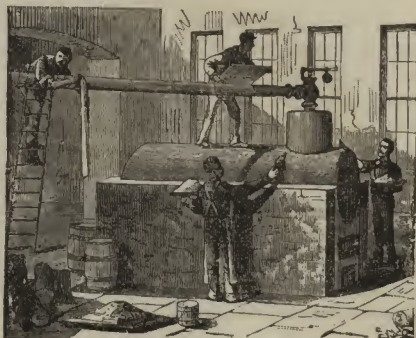
In rolls 36 in. wide, per sq. ft.....6 "

We shall also shortly be able to supply **Asbesto-Sponge Felt**, in rolls 36 in. wide, in various thicknesses. See *Special Circular*.

H. W. JOHNS' Asbesto-Sponge Cement Felting.

(PATENTED.)

A Non-Conducting Covering for Steam Pipes, Boilers,
Still, and Other Steam-Heated Surfaces.



This improvement upon our well-known **Asbestos Cement Felting** is composed of our new material, **Asbesto-Sponge**, and a cementing compound, and is the lightest and most porous Covering ever produced in this form, partaking of the nature of a **felt** and a **cement**, to be used as a mortar and applied with a trowel to Steam Pipes, Boilers, Stills, etc., while heated. It is also extensively used for covering Locomotive Boilers. It is a **strictly first-class article**, and a more effectual non-conductor than any other cement, mortar or so-called "felting" applied to the same thickness, the saving of heat being **real** as well as apparent,—this is not the case with the common cement coverings, which, being necessarily applied much thicker, furnish a larger radiating surface, by which many are deceived.

It is put up in barrels, **dry**, to be mixed with water to the consistency of mortar, and can be easily applied by any ordinary mason or plasterer. One barrel covers a flat surface of about 42 sq. ft. one inch thick, and weighs about 150 lbs. Per bbl.....\$4.00

ASBESTOS HOT-BLAST CEMENT FELTING.

This covering for **Hot-Blast Pipes, Smoke Pipes**, and other *fire-heated* surfaces, being strictly fire-proof, is also valuable as a fire-proof lining for slate and other roofs, and for forming fire-proof roofs; also "deadening" for floors, etc.

One barrel will cover about 42 sq. ft. one inch thick, and weighs about 200 lbs. Per bbl.....\$5.00

H. W. JOHNS'

PATENTED

Asbestos Air-Chamber Covering.

A Non-Conducting Covering for Boilers, Steam and
Hot-Water Pipes.



This form of Covering is composed of our fire-proof Asbestos Lining Felt combined with Hair Felt and our Asbestos Sheathing and Canvas. Additional layers of Hair Felt and Sheathing form the *Double* Air-Chamber, one of the lightest and most effective non-conducting coverings known for Steam Pipes, Boilers, etc. Can be easily removed for repairs to pipes and boilers, and replaced without injury.

Instructions for applying sent with each shipment.

Price for Materials Complete, including Canvas :

Single Air-Chamber Covering, per square foot, flat measure . . . **24 cts.**
Double Air-Chamber Covering, " " " " " " . . . **30 "**

At these prices the cost per Lineal Foot for Regular Sizes of Pipe will be as follows :

Asbestos Single	$\frac{1}{2}$ in.	$\frac{3}{4}$ in.	1 in.	$1\frac{1}{2}$ in.	2 in.	$2\frac{1}{2}$ in.	3 in.	4 in.	5 in.	6 in.
Air-Chamber,	11c.	12c.	14c.	17c.	20c.	23c.	27c.	33c.	40c.	46c.
Double do.	17c.	19c.	20c.	25c.	28c.	32c.	36c.	44c.	53c.	61c.

We are the inventors and patentees of non-conducting coverings composed of a layer or lining of Asbestos, surrounded by hair felt, or other porous or fibrous material, and covered or inclosed with a "jacket" or covering material.

Also of the same divided into practically air-tight chambers or compartments by an Asbestos sheet or other air-tight jacket or sheathing; also of a layer or cushion of Asbestos surrounded or covered by a layer or mass of binding material; also of a felt, wadding, batting, or similar sheet, composed of fibrous Asbestos.

Infringers will be prosecuted.

In addition to the Sectional Coverings herein described, we manufacture several others adapted for special purposes. See Special Circular.

ASBESTO-SPONGE SECTIONAL COVERING.




This new Non-Conducting and Insulating Covering is composed of layers of our Asbesto-Sponge Lined Felt and Wool Felt wound into cylindrical shapes of any desired diameters, and is adapted for Steam and Hot Water Pipes, etc.

It forms the lightest Portable or Sectional Non-Conducting Pipe Covering ever produced, is practically indestructible, and can be readily attached, removed and replaced by any one.

In sections three feet long, Elbow, Tee, Valve, Flange, Union and other fittings to match.

INSIDE DIAMETER OF PIPE.	COVERING, Per Foot.	ELBOWS, Each,	TEES, Each.	VALVES, Each.
From $\frac{1}{2}$ inch. to $1\frac{1}{2}$ inch.	27 cts.	27 cts.	36 cts.	27 cts.
2 "	30 "	30 "	39 "	30 "
$2\frac{1}{2}$ "	34 "	34 "	44 "	44 "
3 "	39 "	39 "	52 "	52 "
$3\frac{1}{2}$ "	43 "	43 "	58 "	58 "
4 "	48 "	48 "	65 "	65 "
$4\frac{1}{2}$ "	51 "	51 "	69 "	69 "
5 "	54 "	54 "	72 "	72 "
6 "	63 "	63 "	83 "	83 "
7 "	72 "	72 "	96 "	96 "
8 "	80 "	80 "	105 "	105 "
9 "	87 "	87 "	117 "	117 "
10 "	97 "	97 "	130 "	130 "
12 "	108 "	108 "	144 "	144 "

 In addition to the Sectional Coverings herein described, we manufacture several others, adapted for special purposes. See *Special Circular*.

H. W. JOHNS'

Asbestos Sectional Pipe Covering.


This Covering is made entirely of pure Asbestos, felted and formed into cylinders of any desired size and thickness, which are cut longitudinally, so they can be readily "sprung" upon the pipe.

It is *strictly fire-proof*, is superior to Hair Felt as a non-conductor and is also much stronger and less liable to injury from hard usage.

These Coverings are finished with a canvas jacket, with lap to be pasted, forming a neat finish over joints.

In sections 3 ft. long. Elbows, Tees, etc., to match.

INSIDE DIAMETER OF PIPE.	COVERING, Per Foot.	ELBOWS, Each.	TEES, Each.	VALVES, Each.
From $\frac{1}{2}$ inch. to $1\frac{1}{2}$ inch.	30 cts.	30 cts.	40 cts.	30 cts.
2 "	33 "	33 "	43 "	33 "
$2\frac{1}{2}$ "	37 "	37 "	49 "	40 "
3 "	43 "	43 "	58 "	58 "
$3\frac{1}{2}$ "	48 "	48 "	64 "	64 "
4 "	53 "	53 "	72 "	72 "
$4\frac{1}{2}$ "	56 "	56 "	76 "	76 "
5 "	60 "	60 "	80 "	80 "
6 "	70 "	70 "	92 "	92 "
7 "	80 "	80 "	106 "	106 "
8 "	88 "	88 "	116 "	116 "
9 "	96 "	96 "	128 "	128 "
10 "	108 "	108 "	144 "	144 "
12 "	120 "	120 "	160 "	160 "

 In addition to the Sectional Coverings herein described, we manufacture several others adapted for special purposes. See *Special Circular*.

H. W. JOHNS'

ASBESTOS FELT.

(PATENTED.)

This Felt is composed entirely of pure Asbestos, and is strictly fire-proof. It is made in sheets and rolls of any desired thickness, and possesses three times the strength of Hair Felt.

It is very light, porous and flexible, can be cut and fitted to any desired shape, and is not liable to injury from abrasion or other hard usage.

It is adapted for covering Steam Pipes, Boilers, Heaters, Furnace Pipes, etc., and for all purposes where an absolutely fire-proof, non-conducting covering or lining is desirable, and can be easily applied, removed and replaced without injury.

In rolls 36 in. wide, containing 100 sq. ft.,	$\frac{1}{4}$ in. thick, per sq. ft.,	15 cts.
“ “ “ “ “ “	$\frac{1}{8}$ “ “ “	10 “
In sheets 36x24	$\frac{1}{2}$ “ “ “	25 “

H. W. JOHNS'

ASBESTOS WIRE-CLOTH.

(PATENTED.)

This material is composed of Asbestos, pulped and formed on either side of iron wire-cloth, producing a firm, strong, compact and flexible sheet.

It is water-proof, and is superior to any other material for many purposes, such as walls and ceilings of dry rooms, boiler rooms, fire-proof partitions, screens, also for forming flues, pipes, etc.

It can be cut and bent into any desired shape and may be painted or bronzed.

In rolls 40 inches wide, per sq. ft. 10 cts.

H. W. JOHNS'

(PATENTED)

ASBESTOS LINING FELT.

This material consists of pure Asbestos Sheathing, to one side of which is attached a layer of "flocked" or felted Asbestos, forming a strictly fire-proof, non-conducting lining for Hair Felt, protecting it from the injurious effects of heat when applied to Steam Pipes, Boilers, etc., also for use on Furnaces, Furnace Pipes, etc.

In rolls 50 ft. long, and 12, 18, 24 & 36 in. wide; per sq. ft., 6 cts.

ASBESTOS CORDED SHEATHING.




This consists of pure Asbestos Sheathing, to the surface of which are attached loosely-twisted rolls of Asbestos, forming a material about $\frac{1}{4}$ of an inch thick. It is particularly valuable as a strictly fire-proof, non-conducting covering for Heaters and Heater Pipes, also for lining Hair Felts on Steam Boilers, etc., and as a fire-proof lining for carpets, etc.

In rolls, containing 100 & 150 sq. ft., 36 in. wide; per sq. ft., 15 cts.

ASBESTOS LOCOMOTIVE LAGGING.

Composed of large strands or twisted rolls of pure **Asbestos**, woven with a fine **Asbestos** warp, and lined with a pure Asbestos Sheathing, forming a strong, matted, felt-like material of great non-conducting power. It is fire and acid-proof, and forms the most effective and durable "Lagging" or Covering known for locomotive boilers and all heated surfaces.

 This is the only substantial non-conducting Covering for Boilers and Pipes on steamships, which is **absolutely fire-proof**. It can be cut in any desired shape without waste.

About $\frac{1}{2}$ inch thick, in rolls 36 in. wide; per sq. ft. 40 cts.

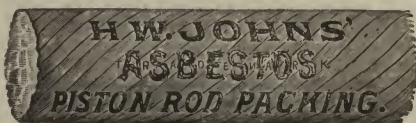
HAIR FELT.

In bales of 300 sq. ft., 6 ft. wide. Best quality; per sq. ft., $\frac{1}{2}$ inch, 7 cts.; $\frac{3}{4}$ inch, 8 cts.; 1 inch, 9 cts.

H. W. JOHNS'

(PATENTED)

ASBESTOS STEAM PACKINGS.



Our improved elastic Asbestos Piston-Rod Packing is composed exclusively of the best quality long-fibre Asbestos, spun into strands and combined, by a new process, into packing of any desired size. It is applied in the same manner as ordinary Hemp Packing, forming the most perfect, compact and durable Packing ever produced for locomotives, marine and other engines, valve-stems, oil pumps, expansion joints, etc. It requires less oil than any other, being to a great extent self-lubricating, and will wear ten times as long as ordinary packings.

This Packing is superior to any heretofore produced in point of durability and ease of application, and is indestructible by acids, long exposure to dampness, or any degree of heat. The cheaper kinds of oil made from petroleum work equally as well with it as lard or sperm.

This Packing is finished with a smooth surface, and is covered with fine manilla tissue paper (to be removed) to prevent the adhesion of dust or gritty substances.

On reels containing 15, 25 and 50 lbs. each. In regular sizes from $\frac{1}{4}$ to 2 inches in diameter; per lb. 40 cts

ASBESTOS WICK PACKING.



This article is composed of the purest and finest Asbestos fibre made into the form of a soft, strong "lamp-wick," which can be wound or packed in any desired shape around small steam and other valve-stems, pumps, etc.; and, being strictly acid and fire-proof, is valuable for use in chemical works, etc.

In 1-lb. balls and on 5 and 10-lb. spools; per lb. 40 cts.

NOTE.—The cotton with which other Packings are adulterated can be easily distinguished by applying a lighted match.

ASBESTOS FIBRE.

Especially prepared for packing journal boxes, filtering chemicals, wiping galvanized wire, filling for torches, fuel cartridges, etc.

FINE CARDED FIBRE, per lb.				30 cts.
No. 1	Extra Long	"	"	25 "
No. 1	Medium	"	"	20 "
No. 3	Ground	"	"	10 "
No. 3	Fine Ground	"	"	10 "

ASBESTOS MILL-BOARD OR FLAT PACKING.

This is composed wholly of pure Asbestos, and weighs about twenty per cent. less than adulterated Mill-Board. It is strictly fire and acid-proof, and forms an economical and durable Flat or Sheet Packing for flange-joints, steam-pumps, cylinder heads, man-hole plates of steam boilers, oil stills, etc., and can be removed and replaced without injury. It is also used for covering locomotive boilers, and for fire-screens, partitions, linings under stoves, grates, etc. In sheets 40x40 inches, from 1-32 to 1-2 inch thick, weighing from 1½ to 28 lbs.; per lb. **18 cts.**

Approximate weight per sheet:—

$\frac{1}{132}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$ inch, thickness.
13¼	3½	7½	10½	14	21	28 lbs.

ASBESTOS GASKETS.

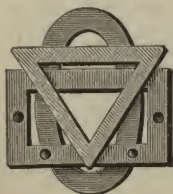
All sizes not exceeding 40 inches outside diameter, from 1-32 to 1-2 of an inch thick, cut to order from our Asbestos Mill-Board—weight less than one-half as much as India-Rubber Gaskets.

Regular shapes, round or square; per lb. **.60 cts.**

Rings and Washers, 3 inches or less in diameter;

per lb. **\$1.25**

Send pattern or drawing with orders for irregular shapes.



ASBESTOS & RUBBER CLOTH.

This material is composed of Asbestos Cloth covered with our improved composition of Asbestos and India-Rubber, and forms the most durable Flat or Sheet Packing made. Being very elastic, it will adapt itself to all uneven surfaces, forming a perfect joint, steam, acid, and air-tight. It weighs about 7 oz. per sq. ft., and is made in sheets and rolls 40 in. wide; per lb. **80 cts.**

We also make two and three-ply.



ASBESTOS & RUBBER TAPE.

A braided Asbestos Band, or Tape, covered with our improved Asbestos and India-Rubber composition, forming the most durable Gaskets, Washers and Rings for Steam Joints, Cylinder Heads, Man-hole and Hand-hole Plates, etc. It can be easily bent into the required shape, and removed and replaced without injury. We make all widths from 5-16 to 2 1-4 inches; per lb. **\$1.00**

Asbestos & Rubber Rings, with cemented lap joints, made to order from our Asbestos and Rubber Tape, on receipt of memorandum of sizes, widths and thicknesses required; per lb. **\$1.25**

ASBESTOS GASKET CEMENT.

A fire, acid and water-proof cement, for forming air-tight joints between layers of our Asbestos Mill-Board where very thick Gaskets are required, and for cementing laps on our Building Felts, Sheathings, etc. In 1, 2 and 5-lb. cans; per lb. **20 cts.**

ASBESTOS PLASTIC STOVE LINING.



This material is composed of Asbestos and other fire-proof materials, prepared ready for use in the form of a **plastic cement** easily applied with a trowel, forming a durable and economical lining for cooking and heating stoves and ranges, hot-air and boiler furnaces, furnace doors, etc. It is also useful for repairing broken fire-brick, iron linings, etc., exposed to fire heat and is invaluable as a Fire Mortar for laying and facing fire-brick in boiler furnaces, as it will not burn out and clinkers will not attach to it.

It is also especially valuable for manufacturers of iron, glass, chemicals, etc.

Casks, 600 to 400 lbs.; per lb.....	4½ cts.
Kegs, 300 to 100 lbs.; " " ..	5 "
Pails, 50 and 25 lbs.; " " ..	6 "
10-lb. Cans; each.....	75 "
5 " " " ..	50 "

ASBESTOS FURNACE CEMENT.

This is the strongest and most durable cement in use for "setting-up" and repairing broken joints, etc., in Furnaces, Ranges, Heaters, Stoves, etc. It is prepared ready for use, adheres readily and firmly to castings, tin, etc., and "sets" in a few hours. When subjected to heat it vitrifies without shrinking or becoming porous or shaking loose, is inodorous, and effectually prevents escape of smoke, gases, dust, etc., thus insuring perfect draught.

It is also invaluable for cementing and lining Furnace Doors of Steam-Boilers, etc., or as a protection for any work exposed to direct heat, flames, etc.

Its color is grey, like castings, and in the unopened package will keep an indefinite length of time without deterioration.

Casks, 600 to 400 lbs.; per lb.....	6 cts.
Kegs, 300 to 100 " " ..	6½ "
Pails, 50 and 25 " " ..	7½ "
10-lb. Cans; each.....	\$1.00
5-lb. " " ..	60 cts.
2-lb. " " ..	35 "

ASBESTOS RETORT CEMENT.

This Cement is now in general use in Gas and Acid Works for repairing broken **clay and iron Gas Retorts**, Pipes, etc., and for cementing fittings, connecting-pipes, flange-joints, etc., also for lining furnace doors, cementing joints in stone, wood and metals. It is composed of **Asbestos** and other fire and acid-proof materials, is prepared ready for use, can be easily applied with a trowel, and hardens rapidly. When subjected to intense heat it vitrifies without shrinking; it is not injured by nitric or sulphuric acids, petroleum oils, etc., and effectually prevents the escape of vapors.

Casks, 600 to 400 lbs; per lb.....	8	cts.
Kegs, 300 to 100 " "	6½	"
Pails, 50 and 25 " "	7½	"
10-lb. Cans, each.....	\$1.00	
5 " " "	60	cts.

ASBESTOS CLOTH.

We manufacture strictly pure Asbestos Cloth in three standard thicknesses—Fine, Medium and Heavy. It is strictly fire-proof, unaffected by acids or mineral oils, and is extensively used for filtering acids, etc., and as a filter cloth for domestic purposes, and in sugar works, etc. It is also made into curtains, aprons, mittens and screens, for use in theaters, smelting works, iron and steel furnaces, etc., as a protection against fire, heat and red-hot metal, also for covering rollers in print-works.

Fine,	weight about 3½ oz. to 1 sq. ft.	{ Per yd., { 25 in. wide.	\$1.65
Medium,	" " 4½ " " "	" " { 36 in. wide.	2.00
Heavy,	" " 6¼ " " "	" " "	3.00
Heavy Twilled,		" " "	3.50

OTHER WIDTHS MADE TO ORDER.

Fire-Proof Theatre Curtains, Flies, Screens, Shields, Covers, Mittens, etc., made to order.

ASBESTOS RUGS.

They are made entirely of pure Asbestos strands, and are woven in plain colors, suitable for artistic house decoration. They are strictly fire-proof, and, although made wholly of stone, are as flexible as any woven fabric.

30x52 inches, each.....	\$ 8.50
36x60 " "	10.00

ASBESTOS FIRE-PROOF ROPE.

For fire-escapes, fire-proof ladders, etc.

$\frac{5}{8}$ in. diameter, $2\frac{6}{7}$ oz. per foot; tensile strength, 1060 lbs.
 " " $4\frac{1}{5}$ " " " " " " 1920 lbs.

All sizes from $\frac{1}{2}$ in. to 2 inches diameter; per lb. 90 cts.

ASBESTOS PRINT-ROLLER CORD.

Acid and fire-proof for covering rollers in print works, etc. It is made to order of any desired diameter; per lb. 85 cts.

ASBESTOS CORD.

This is a strong, hard-finished, six-strand Cord, about one-eighth of an inch diameter. It is valuable for suspending Metals, Retorts, Crucibles, etc., in contact with fire, and for use in theaters, chemical and acid works, print works, etc. It is fire and acid-proof.

In 1-lb. balls; per lb. 75 cts.

ASBESTOS TWINE.

This is a strong, hard-finished, three-strand Twine, about one-fifteenth of an inch diameter. It is fire and acid-proof, and is used for purposes similar to those described for our Asbestos Cord, and for insulating electric and other wires, etc.

In 1-lb. balls; per lb. 85 cts.

ASBESTOS SEWING TWINE.

A very fine, strong, hard-finished Cord, used for sewing our Asbestos Cloth and for binding materials exposed to the action of fire or acids; also for philosophical and chemical apparatus, etc.

In $\frac{1}{2}$ -lb. balls; per lb. \$1.25

ASBESTOS YARN.—TWO AND THREE-PLY.

ASBESTOS PAPER.

In rolls 39 inches wide, weighing about 4 lbs. to 100 sq. ft.; also in sheets 36x47 inches, about 5 sheets to 1 lb.

Per lb. \$1.75

ASBESTOS TUBES.

For covering "Carrying-in Forks" in Glass Works, etc. All sizes and lengths to order.



(PATENTED.)

Vulcabeston (manufactured by the JOHNS-PRATT CO., Hartford, Conn.) is composed of Asbestos, combined with water-and-acid-proof materials, vulcanized and compressed. It is superior to any other known material on account of its permanent resistance to heat and immunity from injury by acids, gases, etc., and is therefore invaluable for a variety of purposes. It can be made in any desired form, is practically indestructible, and will not shrink.

At present we make *two* distinct kinds of **Vulcabeston**, the **acid and water-proof**, which will withstand a high degree of dry heat, and forms the most perfect and durable acid chambers, electric accumulator cells, etc., ever produced, and the **fire and water-proof Vulcabeston**, which is a perfect non-conductor of electricity, and possesses all the valuable qualities of the first, except that it is not acid-proof.

We make to order the following goods for

ELECTRICAL PURPOSES:



Electrical Insulating Rings and Washers.
Electric Accumulator Cells.
Electric Battery Cells.
Commutators.



Incandescent Lamp-bases.

“ “ keys.

Carbon Holders for Arc-Lights.

Insulating parts for Dynamos, Armatures, Switches,
Motors, Electroliers, etc.



Vulcabeston Insulating Sheets, for Electrical purposes,

36x36 in., 1-16 in. thick and upward, per lb.	\$1.25
1-32 and less than 1-16 in. thick, per lb.	1.50

On account of this material being moulded into the various forms in which it is supplied, the drilling, tapping and turning necessary in most of the materials now used for electrical purposes, are avoided.


We also make the following, and various other goods, to order :

Vulcabeston	Insulating and Fire and Acid-Proof Tubing.
“	Pump Valves.
“	Stoppers for Acid and Oil Tanks, Bottles, etc.
“	Cushions for Mechanical Appliances.
“	Railway Dust Guards, and similar articles.
“	Moulded Carriage Axle Washers.

VULCABESTON SHEET PACKING.

This Packing is one of our most valuable productions and will be found to be more durable than Asbestos Millboard, or any other sheet packings, for joints on Steam, Gas, Hot Air, Oil and Ammonia Fittings.

Hard, Medium and Soft, 36x36 in., 1-16 in. thick and upward,
per lb. **\$1.00**
Less than 1-16 inch thick, per lb. **1.25**

 The **Soft** Sheet Packing is intended for very rough joints.


VULCABESTON MOULDED GASKETS.



3 in. or over, outside diameter, weighing
 $\frac{3}{4}$ oz. to 3 ozs. each, per lb. **\$2.50**
Weighing over 3 ozs. each, per lb. **2.00**

Special prices will be quoted for gaskets less than 3 in. outside diameter and weighing less than $\frac{3}{4}$ oz. each.

For goods not carried in stock regularly, moulds will be charged for.

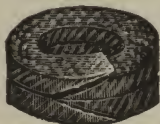
 **Special Shapes**, to fit any kind of Flange, Joint or Connection, will be made to order.

VULCABESTON PRESSED ROPE GASKETS.

Made from our vulcanized and braided Asbestos Rope Packing.

Weighing less than 2 ounces each, per lb. **\$3.00**
“ over 2 ounces, up to 6 ounces, each, per lb. **2.00**
“ in excess of 6 ounces each, per lb. **1.50**
(No charge for moulds.)

VULCANIZED ASBESTOS PACKING-RINGS.



(**Pressed.**) Concave and Convex.

$\frac{3}{4}$ in. or more inside diam., per lb. **\$1.50**

Vulcabeston Moulded Union Washers.



		$\frac{1}{8}$ in. thick.	$\frac{1}{16}$ in. thick.
For $\frac{1}{4}$ in. pipe, per 100.....		\$2.00	\$1.50
“ $\frac{3}{8}$ “ “ “		2.25	1.75
“ $\frac{1}{2}$ “ “ “		2.50	2.00
“ $\frac{3}{4}$ “ “ “		2.75	2.25
“ 1 “ “ “		3.25	2.75
“ $1\frac{1}{4}$ “ “ “		4.00	3.25
“ $1\frac{1}{2}$ “ “ “		5.00	3.75
“ 2 “ “ “		5.50	4.25

Vulcabeston Moulded Faucet Washers.

For $\frac{3}{8}$ in. and $\frac{5}{8}$ in. cocks (1 in. and $\frac{7}{8}$ in. outside diam.), per 100	\$2.50
For $\frac{1}{2}$ in. and $\frac{3}{4}$ in. cocks ($\frac{3}{4}$ in. and $\frac{5}{8}$ in. outside diam.), per 100	2.00

Vulcabeston Shoes.

Fire and acid-proof, for use in smelting furnaces, acid and chemical works, etc. All sizes to order, per pair

VULCANIZED ASBESTOS PISTON-ROD PACKING.



This is a flexible rope packing composed of strong, twisted strands of pure Asbestos, combined with India Rubber and vulcanized. It is an improvement upon our Pure Asbestos Packings, and is superior to all others for piston rods, valve stems, pump valves, etc., where high pressure steam, hot water, oils, acids, ammonia, etc., are used, and for locomotives, stationary and marine engines.

The advantages possessed by this Packing are that, in consequence of its wonderful strength and durability, it can be used wherever metallic packings have been heretofore necessary. It is self-lubricating to a greater extent than any other material, and will not shrink or blow out.

Round and Square, all sizes, from $\frac{1}{8}$ in. to 2 in. diam.; on reels from 10 to 50 lbs. ($\frac{1}{8}$ inch also in $\frac{1}{4}$ and $\frac{1}{2}$ lb. balls); per lb. . . . \$1.00

The approximate number of feet to the pound, for the different sizes, are as follows:

$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2-in. diam.
128	50	25	16	9	8	$6\frac{1}{2}$	4	3	$2\frac{1}{4}$	$1\frac{2}{3}$	1-foot.

Vulcanized Asbestos Wick Packing.

In $\frac{1}{4}$, $\frac{1}{2}$ and 1 lb. balls, $\frac{1}{16}$ in. diam., per lb. \$1.25

INDURATED FIBRE CONDUIT.

(PATENTED.)

These Conduits, (manufactured by the American Indurated Fibre Co., Mechanicville, N. Y.), are deemed by prominent Electricians and Engineers to be the most perfect yet discovered for the protection of underground wires and for carrying all kinds of Electric Conductors, of however great power, either laid naked or insulated and drawn in, and they combine the chief requirements of a perfect underground conduit, which are :

Indestructibility, Perfect Insulation, Low Cost, Economy in laying and maintaining.

The material used is the result of years of investigation and experiment, and is made from long fibres, separated, washed and freed from all saps and gums, moulded under enormous hydraulic pressure, while in a pulpy state, into the shape of pipes or conduits, and by chemical treatment and solidifying process, hardened and rendered impervious to moisture, gas or acids.

It has many advantages over all other conduits, being light, strong and durable, a perfect non-conductor; unaffected by thermal changes, practically indestructible, and cheaper than wrought iron pipe.

For laying electric wires underground, IT IS SUPERIOR TO ANY FORM OF CONDUIT YET OFFERED, as it will not rust or decay, and will protect the current perfectly, in the event of imperfect insulation.

GENERAL USES.

It is especially recommended to those desiring perfect water conduits for cities, villages, mines, factories, and other places where pure water free from iron rust is an important feature, on account of its strength and durability, and the fact that it will not rust, taint water nor become coated with lime or other foreign matter, and is also adapted for COAL AND IRON MINES, for compressed air and water, not being affected by acids, sulphur, etc.

It is very desirable for use in SANITARY PLUMBING, Ventilating and House Fitting, Soil Pipes, Sewage, etc., and also for acid works, tanneries, dye houses, bleacheries, oil and chemical works, paper, cotton and other mills, where strong chemical solutions and acids are used, as it will not rust, peel, scale or color any liquid.

It is made in sections five feet in length, and in all sizes, from two inches upwards.

We quote below on NOMINAL INSIDE diameter. Our pipes are threaded to fit ordinary iron fittings, but being somewhat thicker the ACTUAL INTERNAL diameter is not quite that of the iron pipe. Couplings of INDURATED FIBRE are furnished with each length.

Inside Diameter, Nominal.	Price per foot.	Weight per foot, Nominal.	Thickness.	No. Threads per inch of Screws.	Discount.
2	.40	.75 lb.	.305 in.	11 ½	
2 ½	.44	1.15 "	.330 "	8	
3	.58	1.51 "	.375 "	8	
3 ½	.70	1.80 "	.445 "	8	
4	.85	2.15 "	.505 "	8	
4 ½	1.00	2.51 "	.560 "	8	
5	1.20	2.95 "	.605 "	8	
6	1.65	3.76 "	.665 "	8	
7	2.00	4.66 "	.710 "	8	
8	2.75	5.64 "	.750 "	8	
9	3.70	6.75 "	.750 "	8	
10	4.75	8.01 "	.750 "	8	
11	5.75	9.02 "	.750 "	8	
12	6.50	9.80 "	.750 "	8	
13	7.75	10.80 "	.750 "	8	
14	9.00	11.60 "	.750 "	8	
15	10.00	12.40 "	.750 "	8	

Smaller sizes, only, are now made, larger will soon be ready.



INDURATED FIBRE PAILS.

These Pails are moulded into shape at one operation, and made strong and compact by hydraulic pressure, after which they are subjected to a chemical treatment (the ingredients of which are perfectly harmless) and vitrified under a high temperature.

They possess the following advantages: they will not shrink or swell; will not taint water or milk; are proof against Hot or Cold Water, Alkalies, Acids, etc.; are strong, light and durable; have no hoops and no seams or joints; require no Paint or Varnish to preserve them, and they are superior to any others for House, Farm and Factory purposes, also for Fire Buckets, etc.

Price, per dozen **\$6.00**

We will also make to order Indurated Fibre, moulded into any desired form, for special purposes.

 Send for Special Circulars. 

THE CENTENNIAL
PRIZE MEDAL ^{AND} DIPLOMA OF MERIT
WERE
AWARDED FOR OUR ASBESTOS MATERIALS.

FIRST PREMIUM AWARDED BY

American Institute, '58 to '70, '71, '72, '73, '74, '75,
'77, '78, '79, '80 and '81.

New Hampshire State Fair, 1871.

Louisiana State Fair, 1870.

Pennsylvania State Fair, 1872.

Texas State Fair, 1871.

Rhode Island State Fair, 1872.

N. E. Agricultural Society, 1874.

Chilian Exposition, 1875.

N. C. Agricultural Society, 1877, 1887.

Atlanta Cotton Exposition, 1881.


Inter-Colonial Exposition, Melbourne, Australia, 1880.

Gold Medals (2), Matanzas Exposition, 1881.

Silver Medal, Amsterdam Exposition, 1883.

Crystal Palace Medal, London, 1884.

Medal of the First Class, New Orleans, 1885.

 The Highest Premiums have in every instance been awarded to our Asbestos and other Materials at all Expositions and Fairs wherever exhibited.

1858-1889.

IN 1858 we commenced the manufacture of Compositions, Coatings and Paints for roofs and for preserving wood, metals, fabrics, etc., and alter a few years produced our portable ROOFING, which, in an improved form, (the well-known ASBESTOS ROOFING) is now in general use in nearly all parts of the world.

In 1868 we first made known the results of our long continued experiments with the indestructible, fibrous mineral, ASBESTOS, then comparatively unknown, and commenced the manufacture of the numerous specialties composed wholly or in part of Asbestos, which have since become necessities and are recognized as standard articles for mechanical, structural and other purposes. NOTE.—Nearly all the practical uses of Asbestos were invented by H. W. Johns.

In 1874 we commenced the manufacture of LIQUID PAINTS, and in 1878 completed our new works for their production on a more extended scale. Our success in this branch has been unparalleled, no other paints for structural decoration having so large a sale or commanding so high a price in this country and abroad.

The demand for our products has increased so steadily that we have nearly every year been compelled to extend our manufacturing facilities, until we now have the *most extensive and complete works in the world* for analogous purposes.

We have always aimed to produce materials *of the best quality, and challenge the world* to show articles for similar purposes which, in usefulness, durability and perfection of manufacture, equal ours.

Our various kinds of goods are severally adapted for each season of the year, and by reason of the production of many specialties under one general system, we are enabled to supply them at *lower prices, quality considered*, than can be afforded by any manufacturer *of only one class of goods* for similar purposes; and we confidently anticipate the continued and increasing patronage of those who have learned that the purchase of the best article for practical uses is true economy.

TO DEALERS

And General Merchants.

WE ask you to look over our list, which comprises many well-known articles for Household, Structural and Mechanical purposes, which are constantly wanted everywhere. We believe no other manufacturing house can offer a more desirable line of goods of solid practical value, or one which forms so complete a basis for a profitable business *all the year round*.

Although for seemingly widely different purposes, our goods are all connected in their uses, and are required by everyone for his house, store or factory.

We give *exclusive sale* of our PAINTS, ROOFING and STEAM PIPE AND BOILER COVERINGS, and our terms will be found liberal and satisfactory.



TO CONSUMERS.

Manufacturers, Builders, Railroad Co's, etc.,
can save from 10 to 25 per cent. of their customary outlays by use of our

LIQUID PAINTS, ASBESTOS ROOFING, STEAM PIPE AND
BOILER COVERINGS, STEAM PACKINGS, Etc.

Ready for Use and easily applied by any one.

Samples, Estimates of Cost and any further desired information will be promptly furnished.

 LIBERAL DISCOUNTS TO LARGE CONSUMERS. 

H. W. JOHNS MANUFACTURING CO.,

87 MAIDEN LANE, NEW YORK. 170 & 172 NORTH 4TH ST., PHILA.	240 & 242 RANDOLPH ST., CHICAGO. 88 LEADENHALL ST., LONDON.
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Facsimile of our
Trade Mark
Label.



Which will be found on
every package of
our Paints.



TO DEALERS AND GENERAL MERCHANTS.

WE ASK you to look over our list, which comprises many well-known articles for Household, Structural and Mechanical purposes, constantly wanted everywhere.

We can offer satisfactory inducements to Dealers, and shall be glad to send you our full descriptive Price-Lists, and to quote prices and terms for exclusive sale of our most important specialties.

Respectfully,

H. W. JOHNS MANUFACTURING CO.,

87 MAIDEN LANE, NEW YORK.

CHICAGO:

240 AND 242 RANDOLPH STREET.

PHILADELPHIA:

170 AND 172 NORTH FOURTH STREET.

LIST OF MANUFACTURES.

PAINTS, COLORS, ETC.

H. W. JOHNS' LIQUID PAINTS.

Roof and Railway Paints.

Liquid Priming.

Liquid Dyer.

Iron Oxide Paint.

Wood Stains and Wood Filler.

Fire Proof Paints.

Colors in Oil and Coach Colors.

Liquid Coach Black.

Liquid Gloss Paints.

Varnishes.

ROOFING AND BUILDING MATERIALS.

ASBESTOS ROOFING.

" Roof Coating.

" Roof Paint.

" Roof Cement.

" Building Felt.

" Sheathing.

" Fire and Water-Proof Sheathing.

STEAM PIPE AND BOILER COVERINGS.

ASBESTO-SPONGE CEMENT FELTING.

" " Sectional Pipe Covering.

ASBESTOS Sectional Pipe Covering.

" Hot Blast Cement Felting.

" Air Chamber Boiler Covering.

" Lining Felt, (For use under Hair Felt, etc.)

" Corded Sheathing, (For Covering Hot-Air Pipes, etc.)

" Locomotive Lagging.

STEAM PACKINGS.

ASBESTOS PISTON-ROD PACKING.

" Wick Packing.

" Fibre "

" Flat or Sheet Packing.

" Gaskets.

" Vulcanized Rope Packing.

" Gasket Cement.

ASBESTOS AND RUBBER CLOTH, TAPE, ETC.

ASBESTOS FABRICS, ETC.

ASBESTOS CLOTHS, (For Theatre Curtains, etc.)

" Fire-Proof Rope, (For Fire Escapes, etc.)

" Cord, Twine, Yarn, ETC.

" Tubes, (For Glass Works.)

" Rugs and Mats, (For open Fire-places.)

FIRE-PROOF CEMENTS, COATINGS, Etc.

ASBESTOS PLASTIC STOVE LINING.

" Furnace Cement.

" Retort Cement.

" Concrete Coating, } (For fire-proofing In-

" Fire-Proof Paints, } terior Wood Work.)

" Fire and Water-Proof Paints.

VULCABESTON GOODS.

For Electrical, Steam and Mechanical Purposes.

VULCANIZED ASBESTOS PISTON-ROD PACKING.

INDURATED FIBRE CONDUITS, PAILS, ETC.